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## PG Degree Regular/Supplementary Examinations in Biochemistry (MD) July 2023

## Paper III - Nutrition and Metabolism

Time: 3 hrs Max marks:100

- Answer all questions to the point neatly and legibly
  Do not leave any blank pages between answers
   Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essay: (20)

1. Classify vitamins. Describe the sources, active forms, metabolic role, deficiency manifestations and RDA of vitamin D. Add a note on its regulation.

Short essays: (8x10=80)

- 2. National nutritional programs.
- 3. Describe the absorption and transport of iron.
- 4. Laboratory diagnosis of nutritional disorders.
- 5. Steps and significance of HMP shunt pathway.
- 6. Describe the metabolism of sulphur containing amino acids. Add a note on the associated inborn errors of metabolism.
- 7. Oxidation of fatty acids and associated disorders of metabolism.
- 8. Sources, biochemical functions and deficiency manifestations of vitamin B<sub>6</sub>.
- 9. Metabolism of xenobiotics.

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